James E. Moon, Timothy J. Davis, Gregory J. Galvin, Kevin A. Shaw, Paul C. Waldrop and Sharlene A. Wilson
Our Docket No.: 1153_010DIV5CON
For: METHOD FOR FABRICATING ESI, DEVICE USING SMILE AND DELAYED LOCOS TECHNIQUES
Attorney of Record: Indranil Mukerji
Telephone: (315) 425-9000
Page 1 of 58

FIG. 1

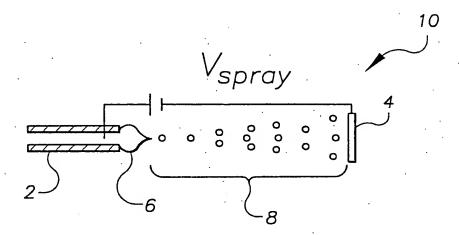


FIG.2A
PRIOR ART

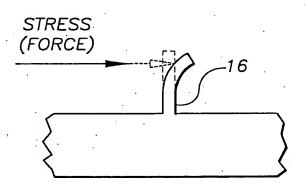
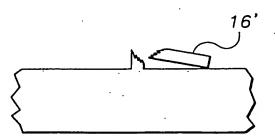
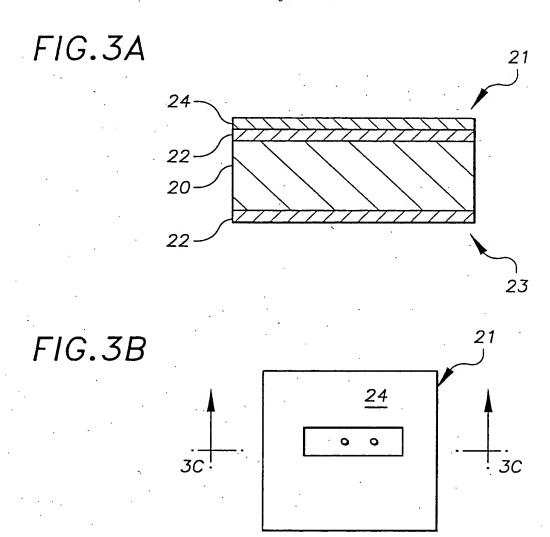
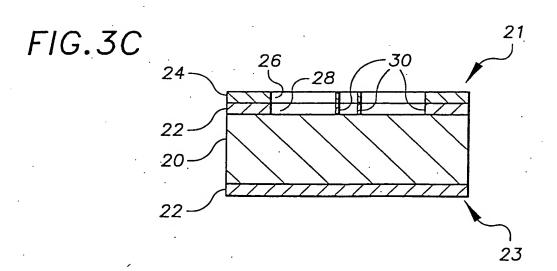


FIG.2B







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Attorney of Record: Indranil Mukerji
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FIG.3D

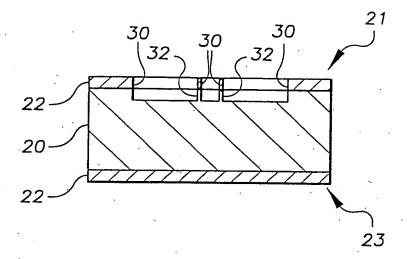


FIG.4A

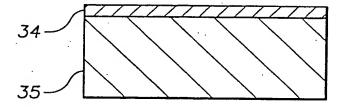
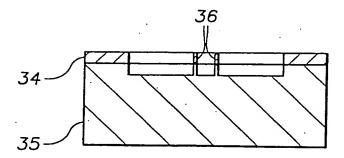


FIG.4B



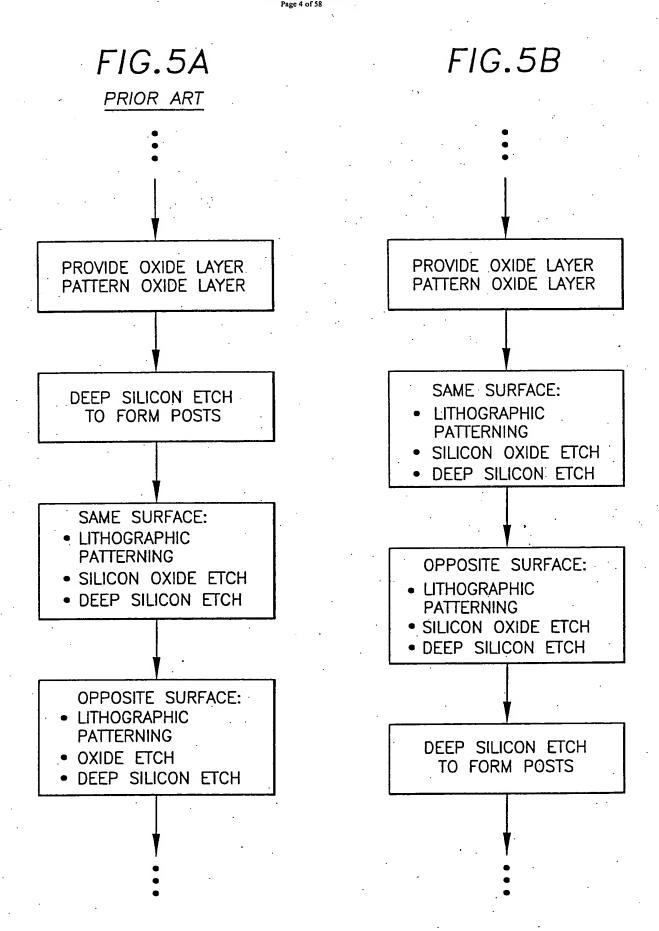


Fig. 6a Prior Art

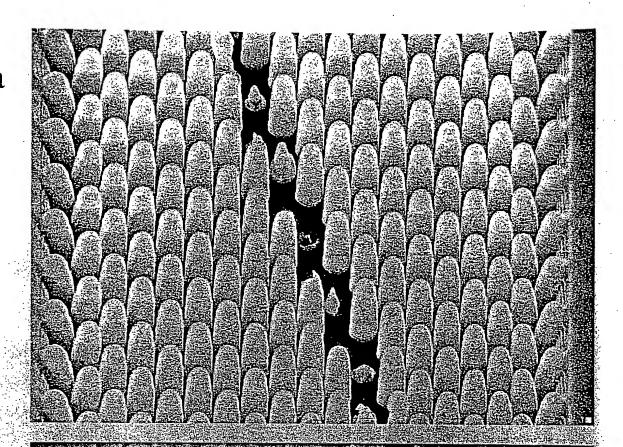


Fig. 6b

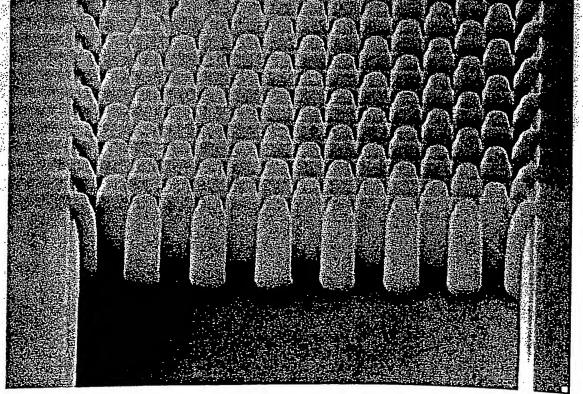


FIG.7A

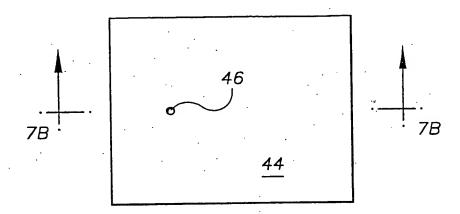


FIG.7B

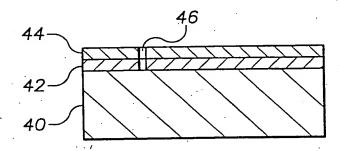


FIG.7C

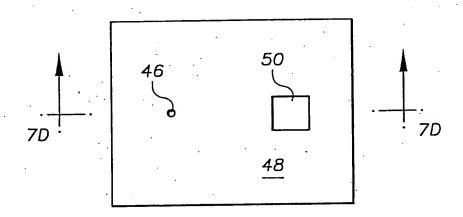


FIG.7D

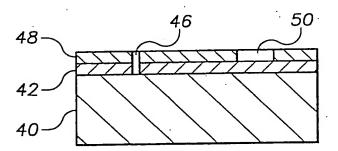


FIG.8

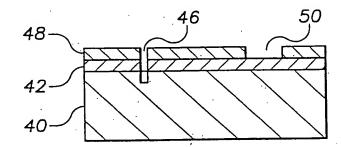


FIG.9

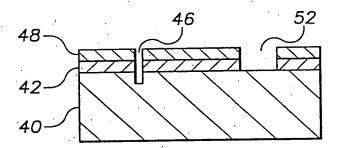


FIG. 10

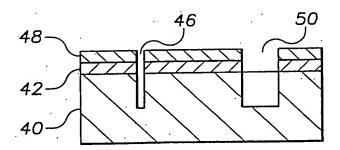


FIG.11A

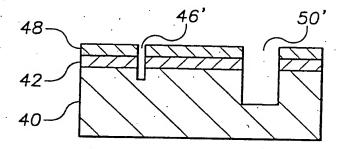


FIG. 11B

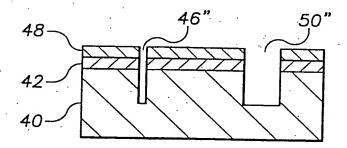
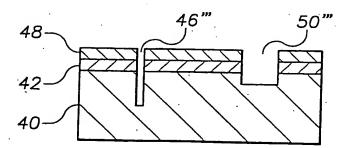


FIG. 11C



James E. Moon, Timothy J. Davis, Gregory J. Galvin, Kevin A. Shaw, Paul C. Waldrop and Sharlene A. Wilson Our Docket No.: 1153_010DIV5CON For: METHOD FOR FABRICATING ESI DEVICE USING SMILE AND DELAYED LOCOS TECHNIQUES Attorney of Record: Indranii Mukerji Telephone: (315) 425-9000 Page 9 of 58

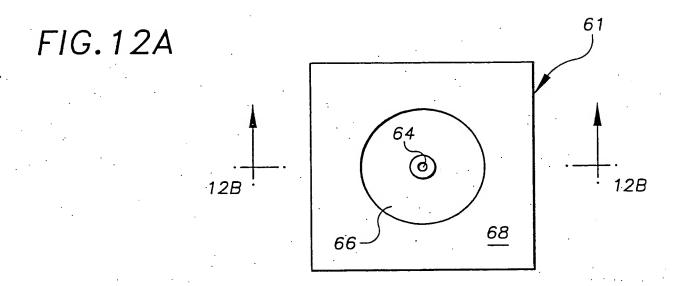


FIG. 12B

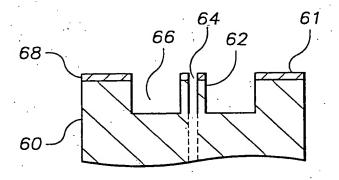


FIG. 13A

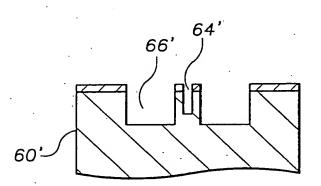


FIG.13B

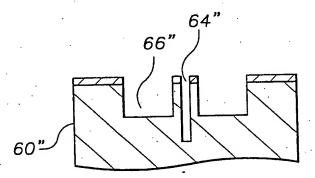


FIG. 15

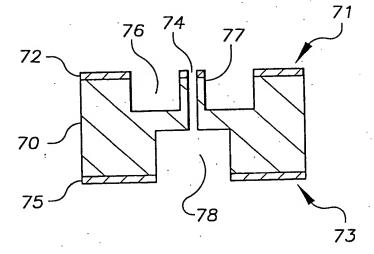


Fig. 14

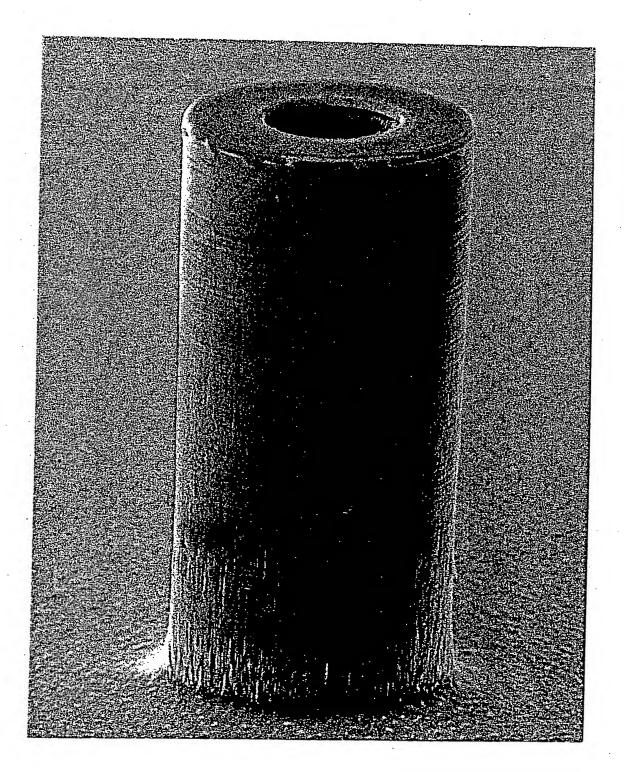


FIG. 16A

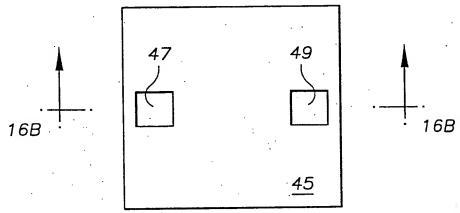


FIG. 16B

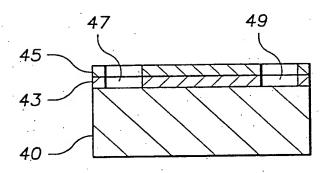


FIG. 16C

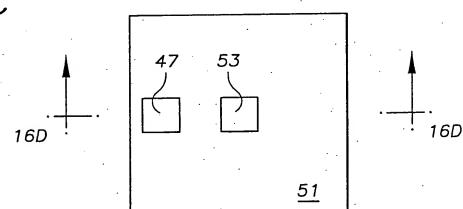


FIG. 16D

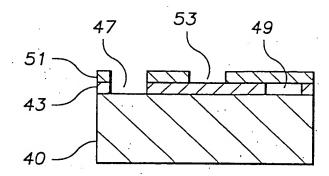


FIG. 16E

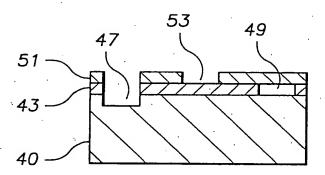


FIG. 16F

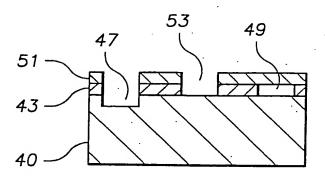


FIG. 16G

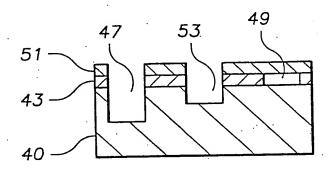


FIG.16H

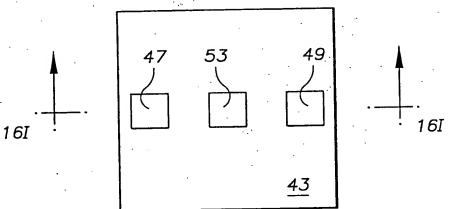


FIG. 16I

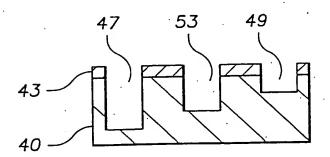


FIG. 17

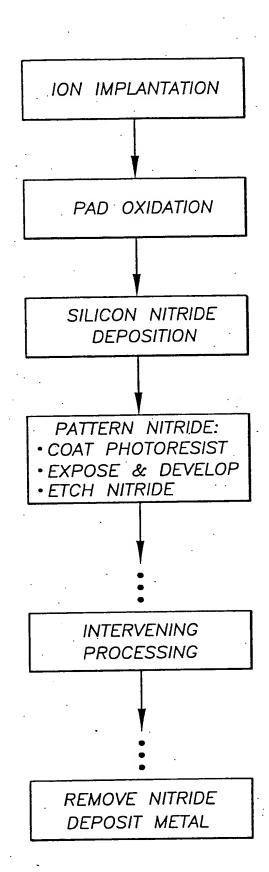


FIG. 18

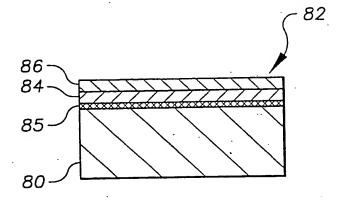


FIG. 19

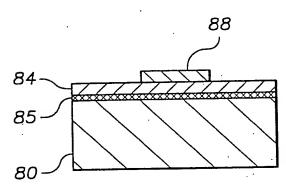


FIG.20

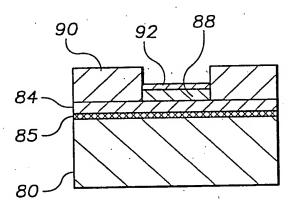
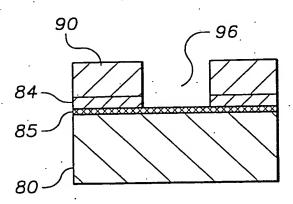
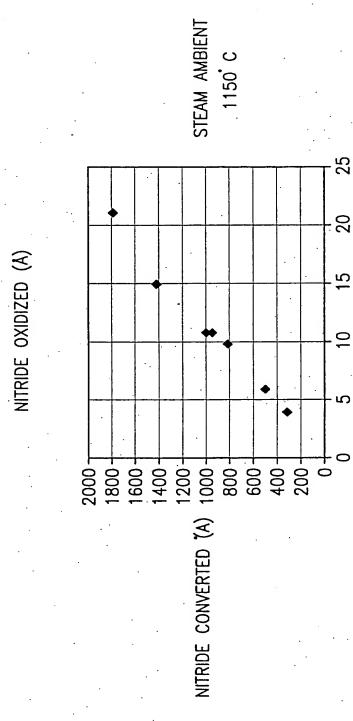


FIG.22A





OXIDATION TIME (h)

15

10

FIG.21

FIG.22B

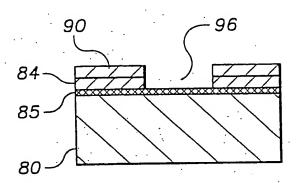


FIG.22C

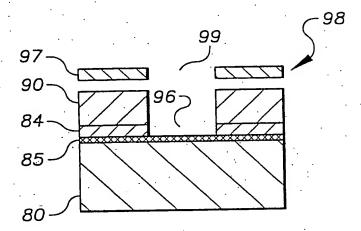
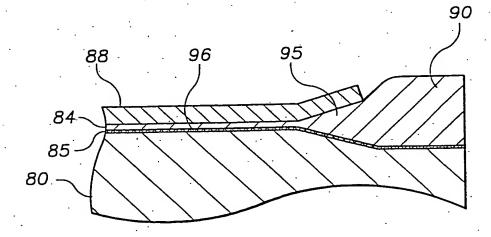
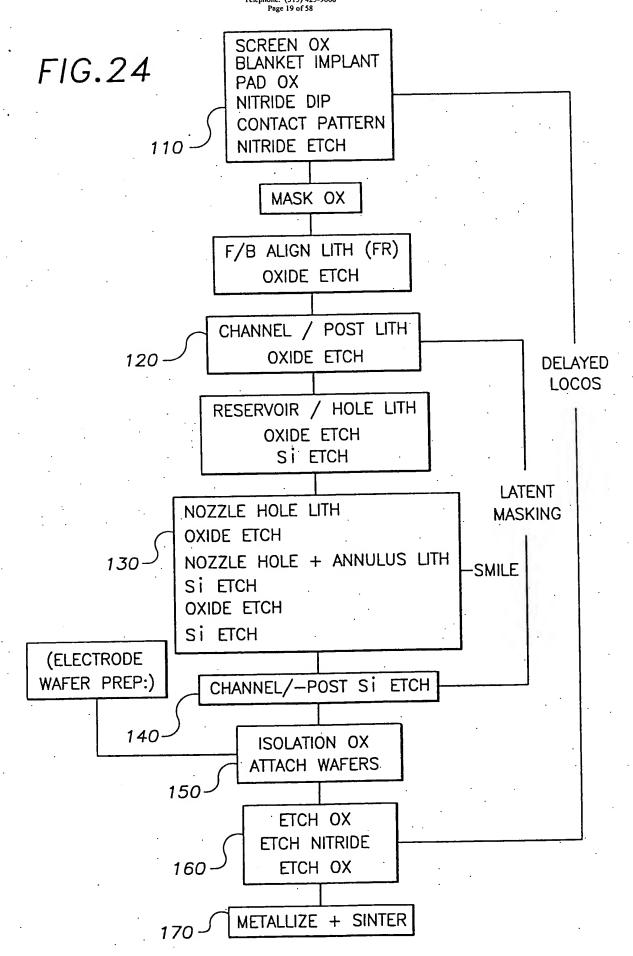
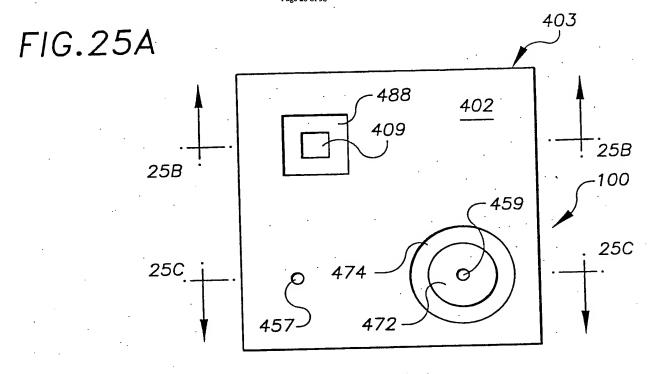
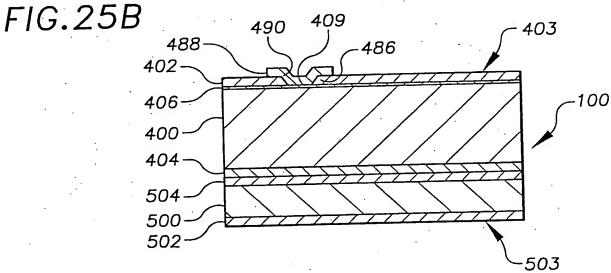


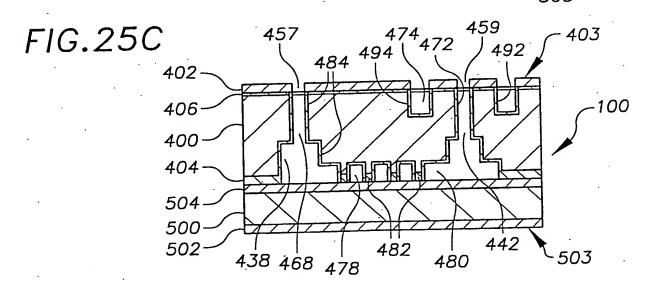
FIG.23











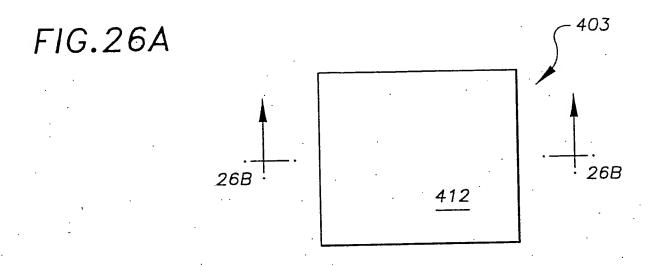


FIG.26B

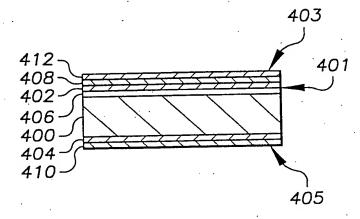


FIG.26C

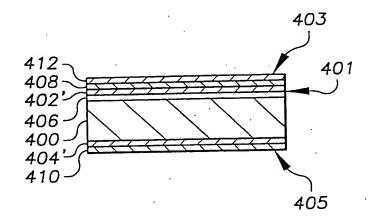


FIG.27A

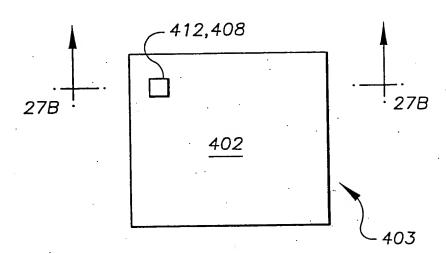


FIG.27B

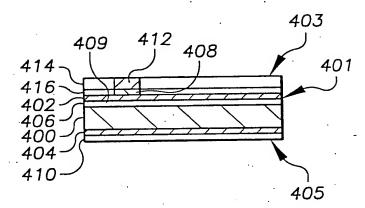


FIG.28

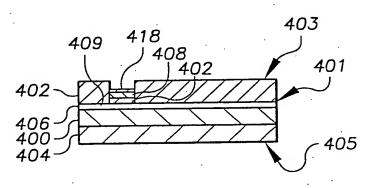
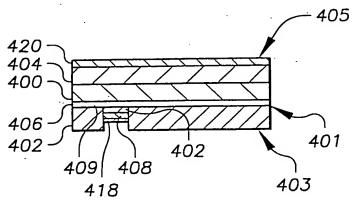


FIG.29



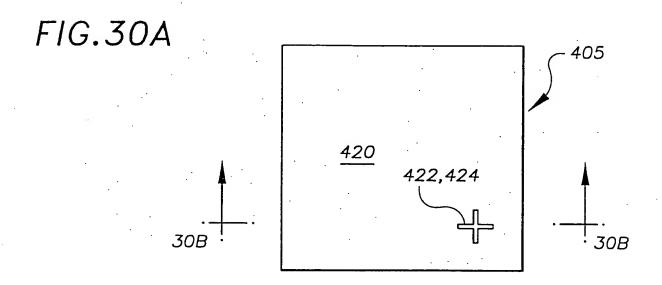


FIG.30B

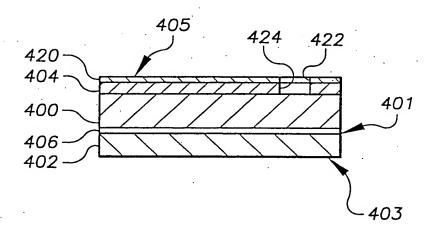
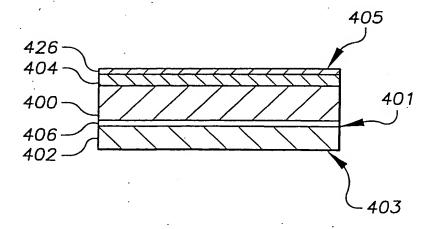
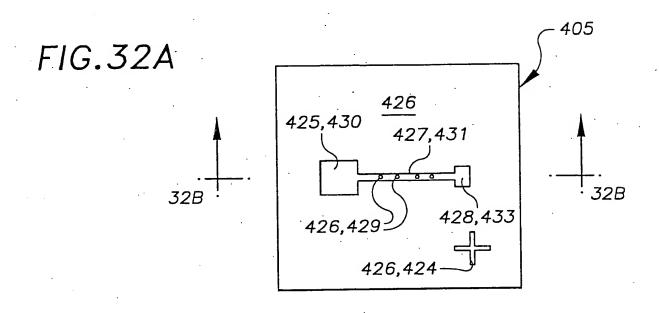
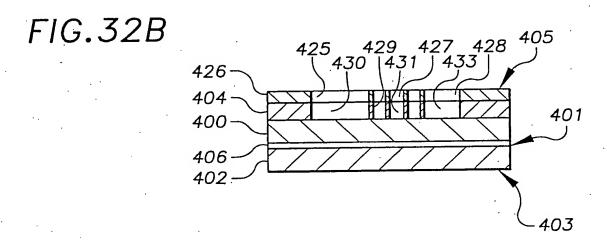
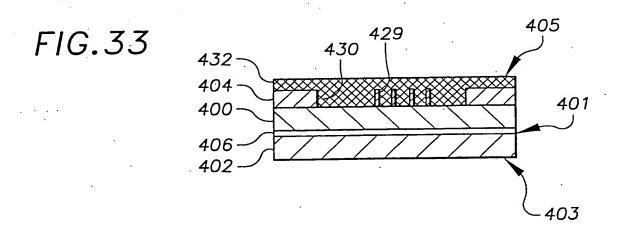


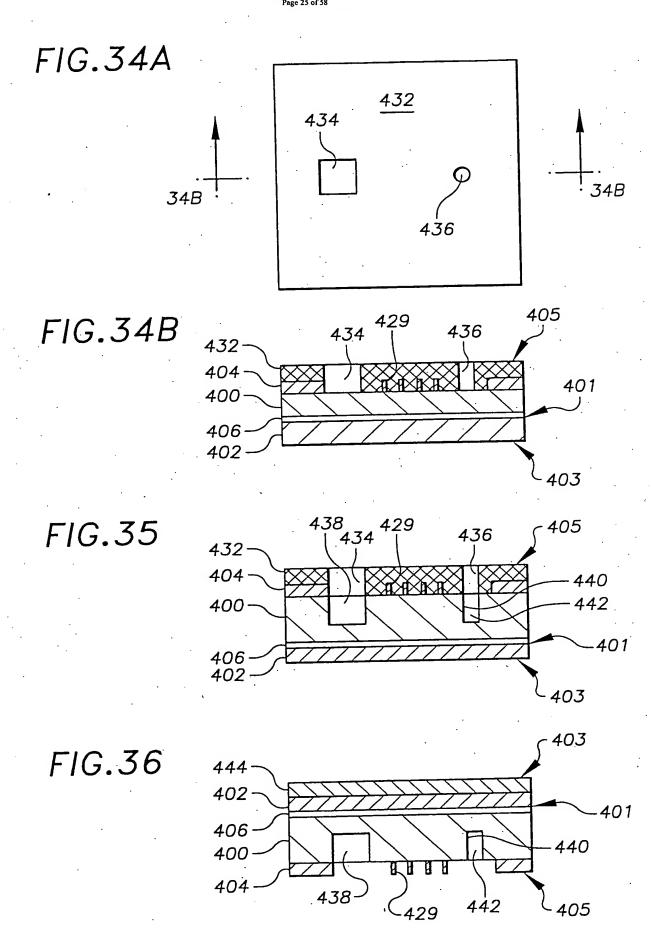
FIG.31











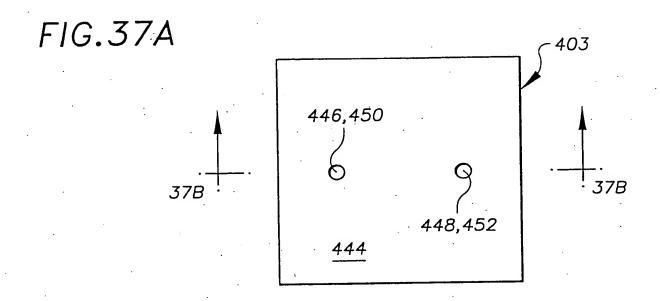


FIG.37B

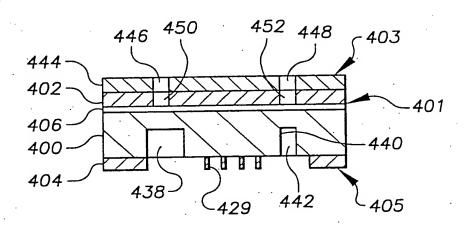
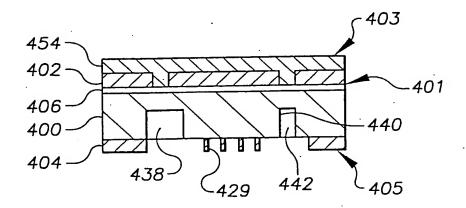
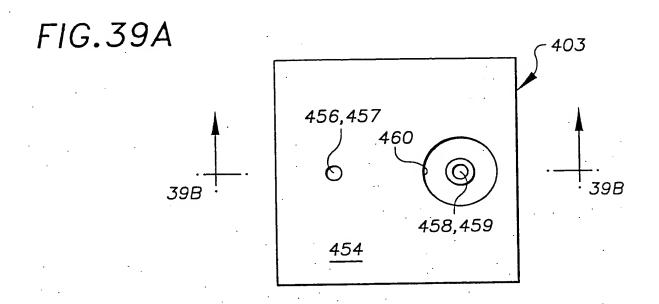
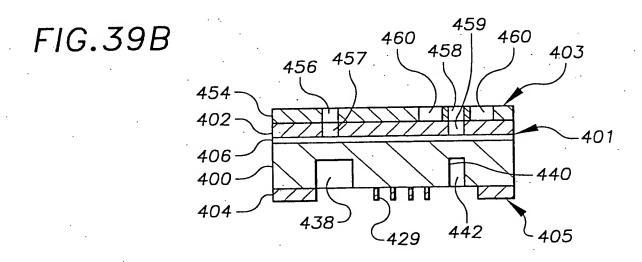
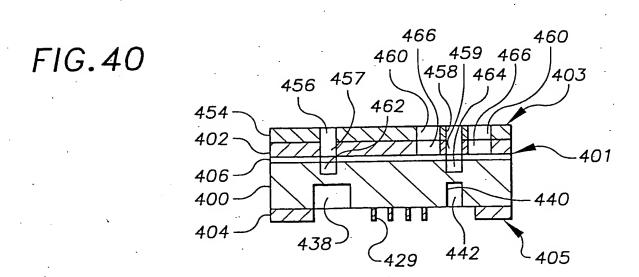


FIG. 38











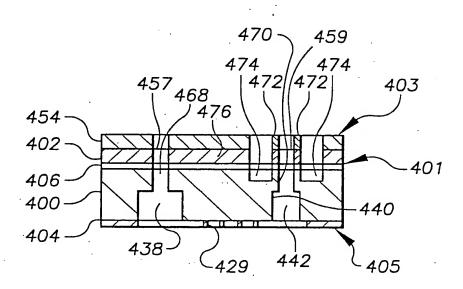


FIG.42A

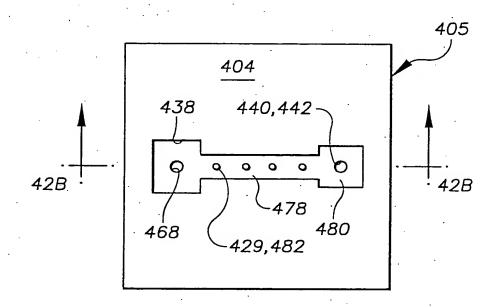


FIG. 42B

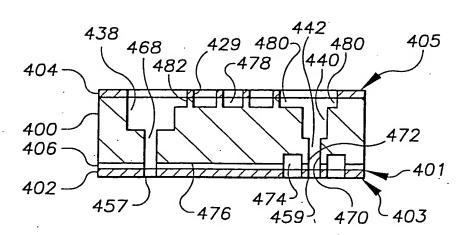
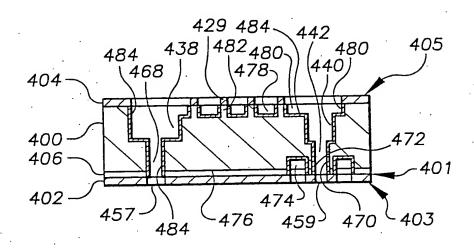
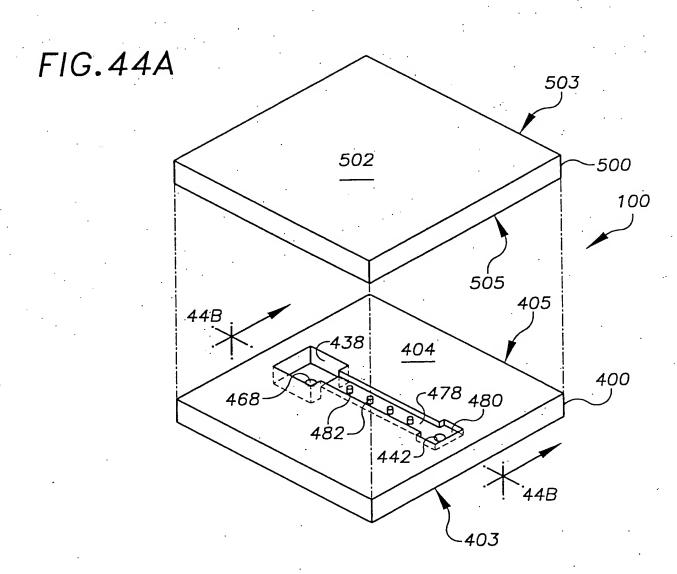
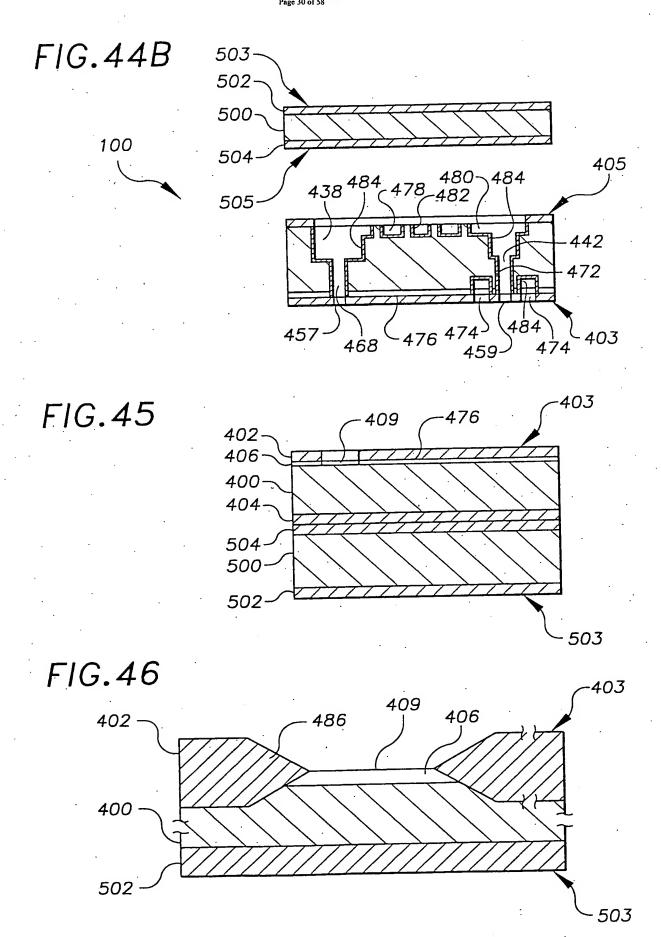
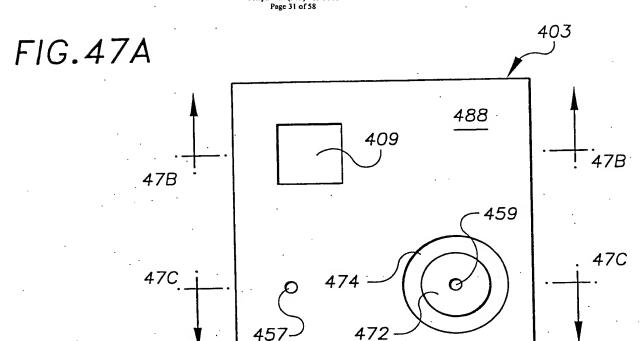


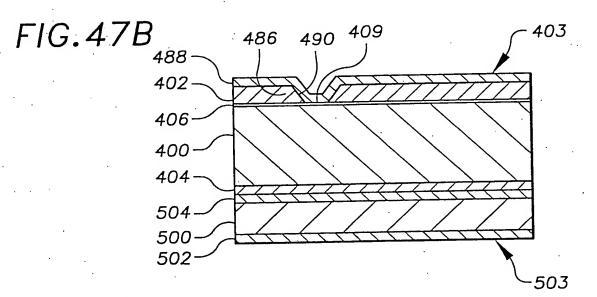
FIG. 43

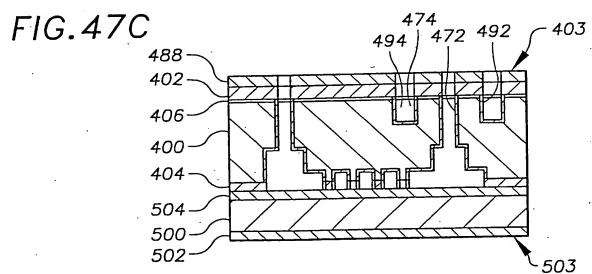












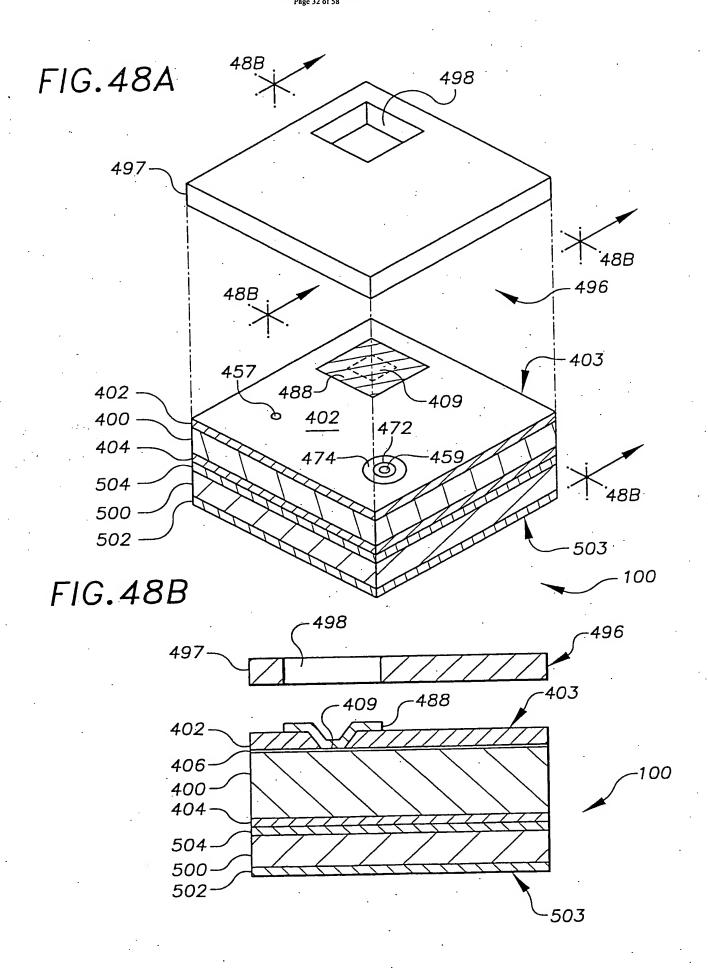


FIG.49

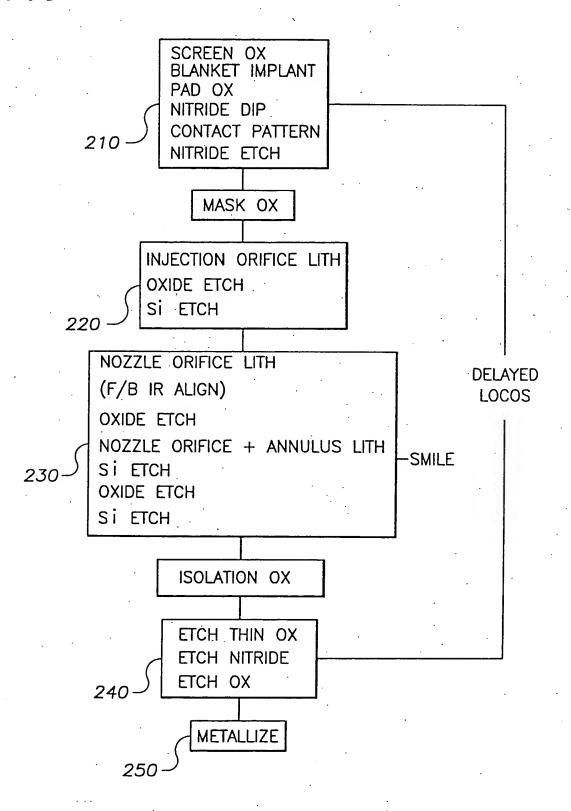


FIG.50A

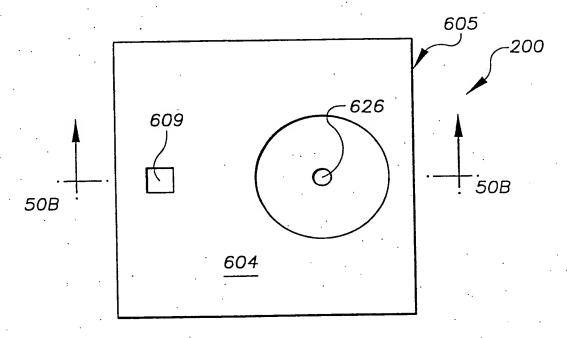
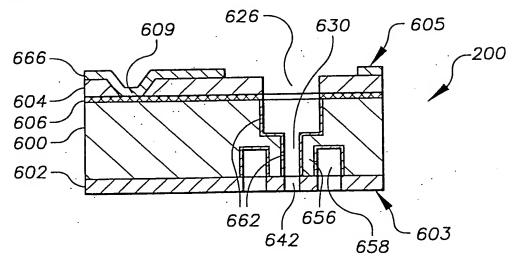
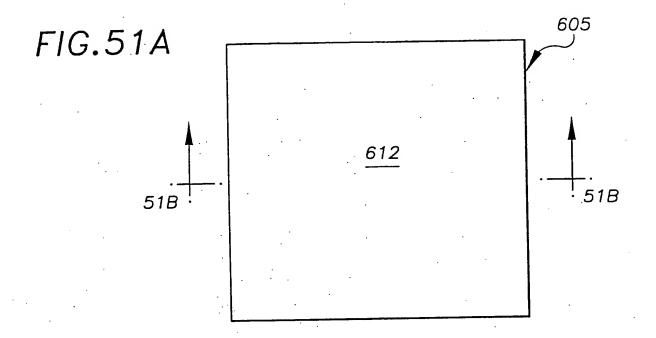
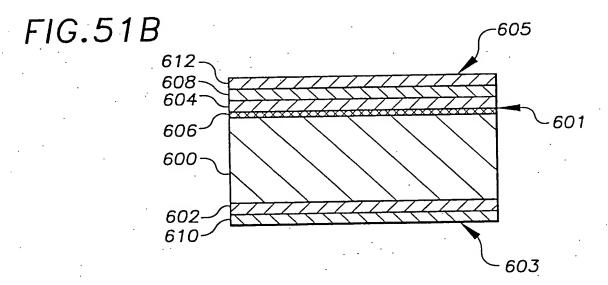
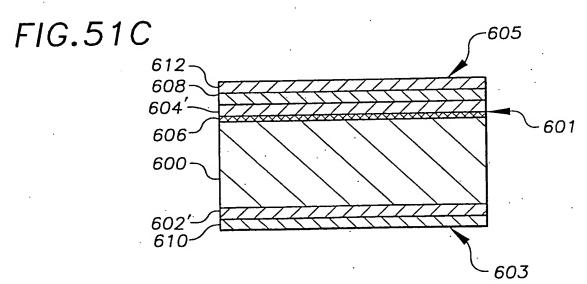


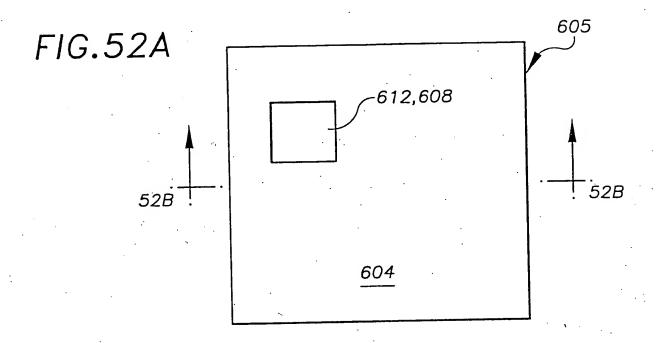
FIG.50B

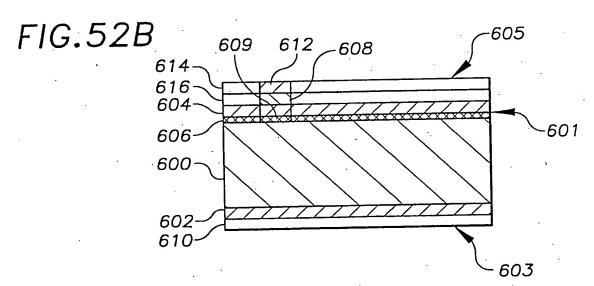


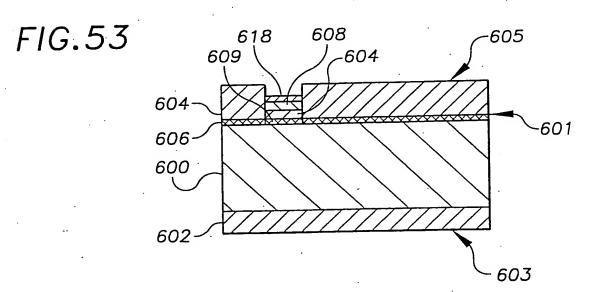


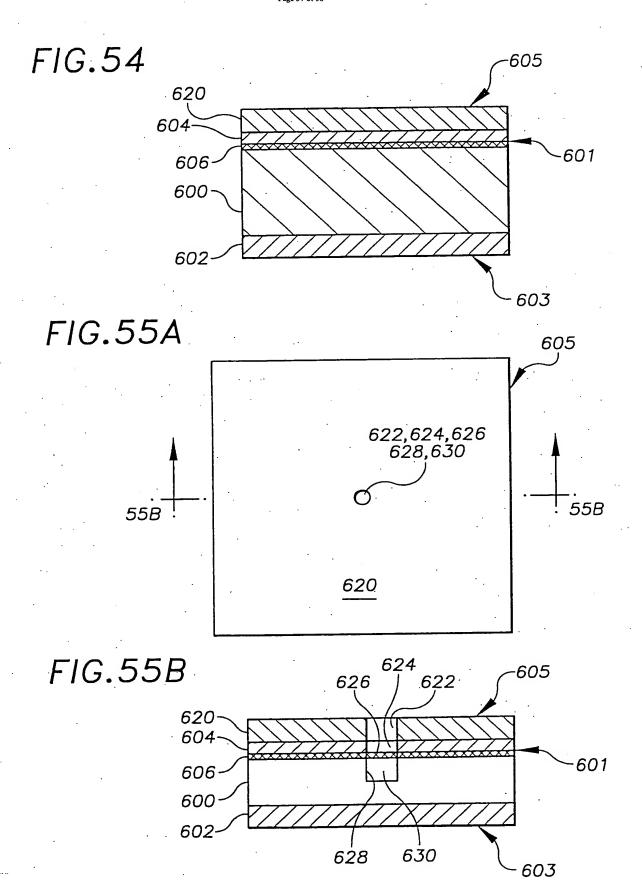




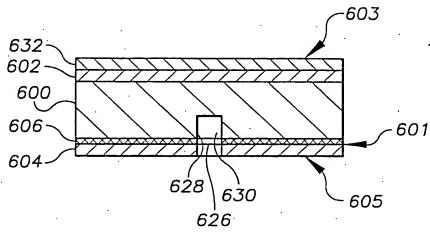


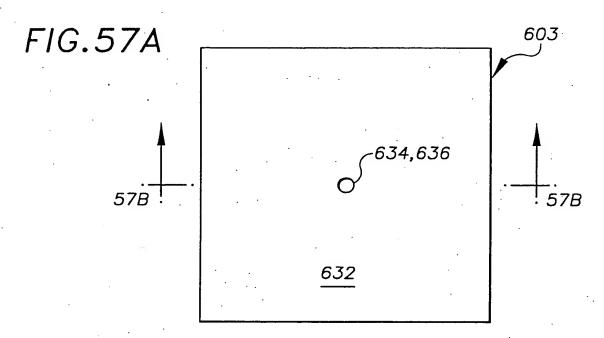


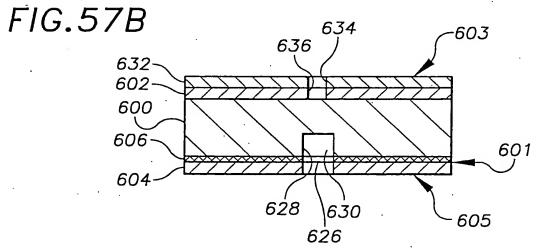


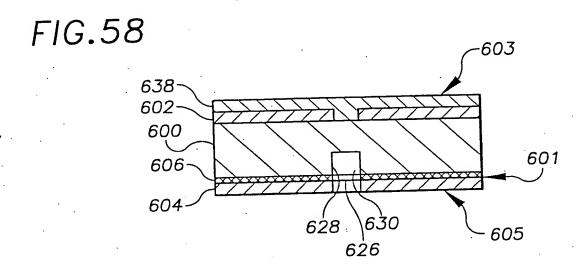












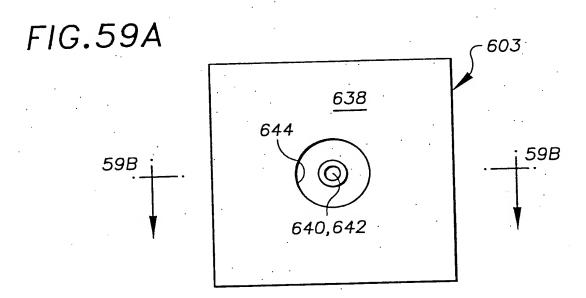


FIG.59B

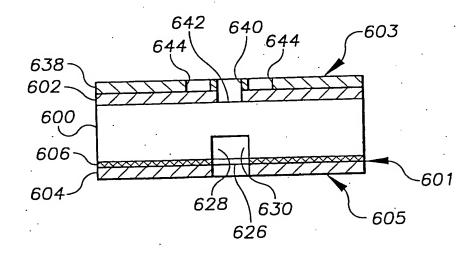


FIG.60

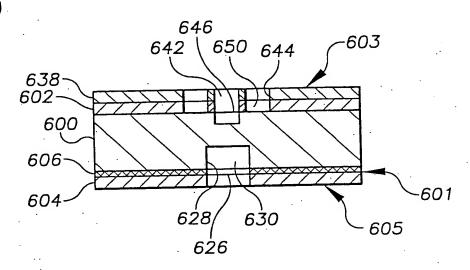


FIG.61

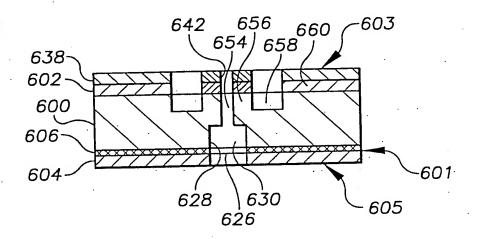
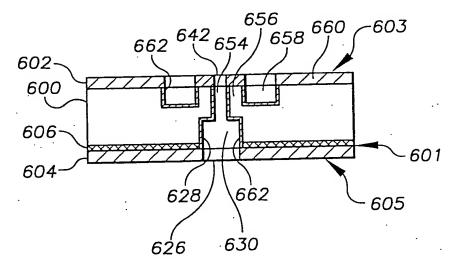
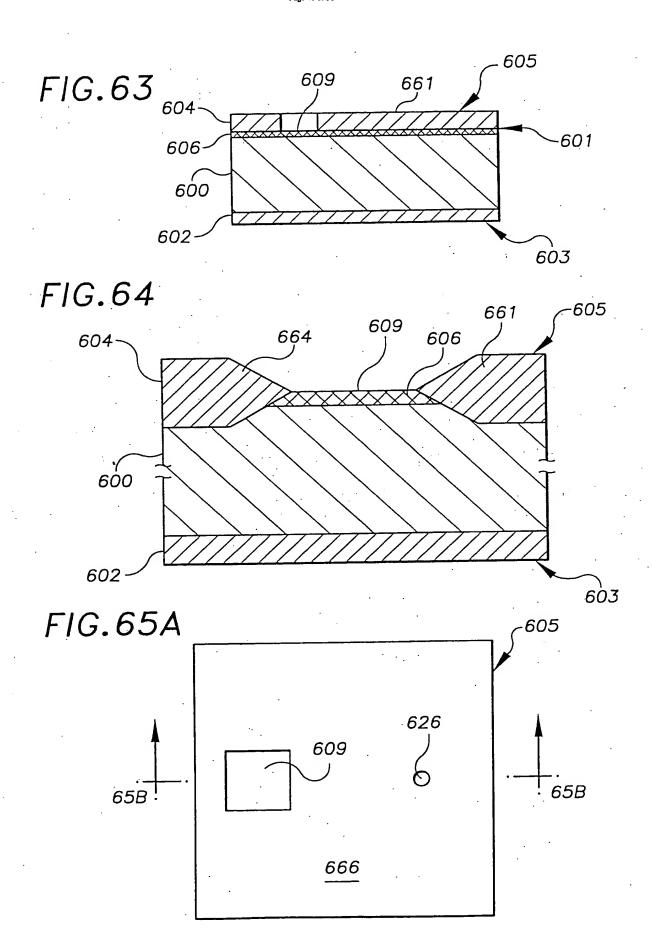
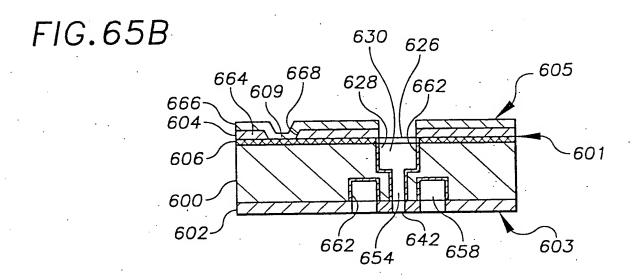
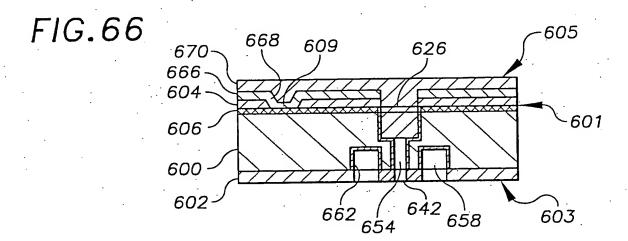


FIG. 62









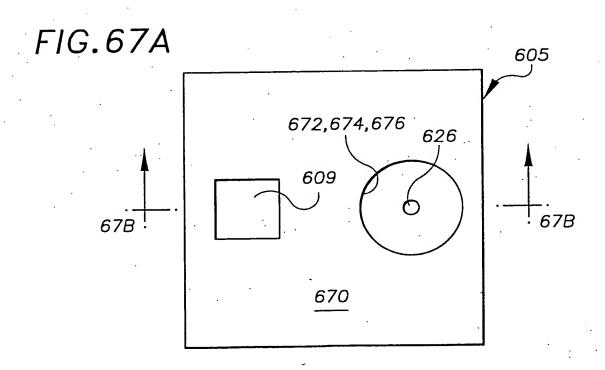


FIG.67B

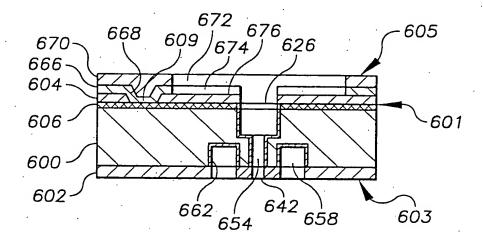
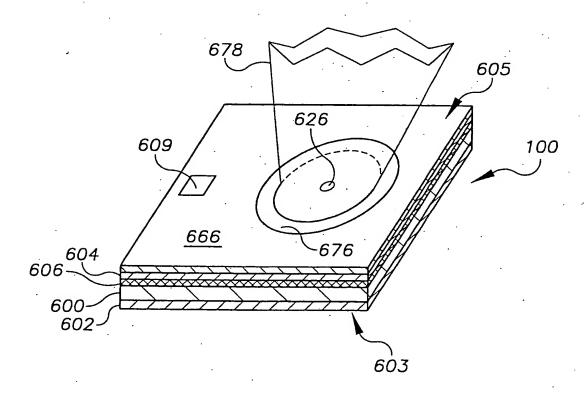
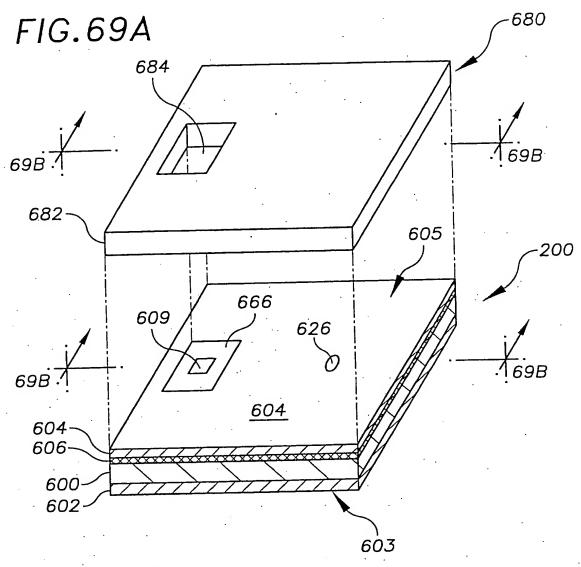
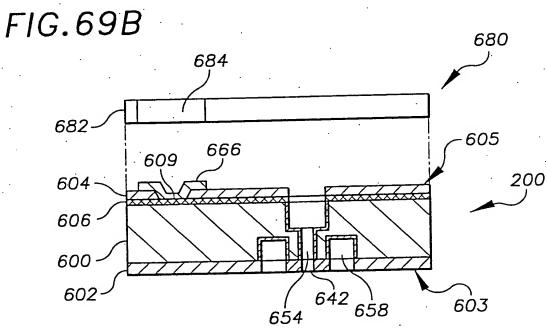


FIG.68









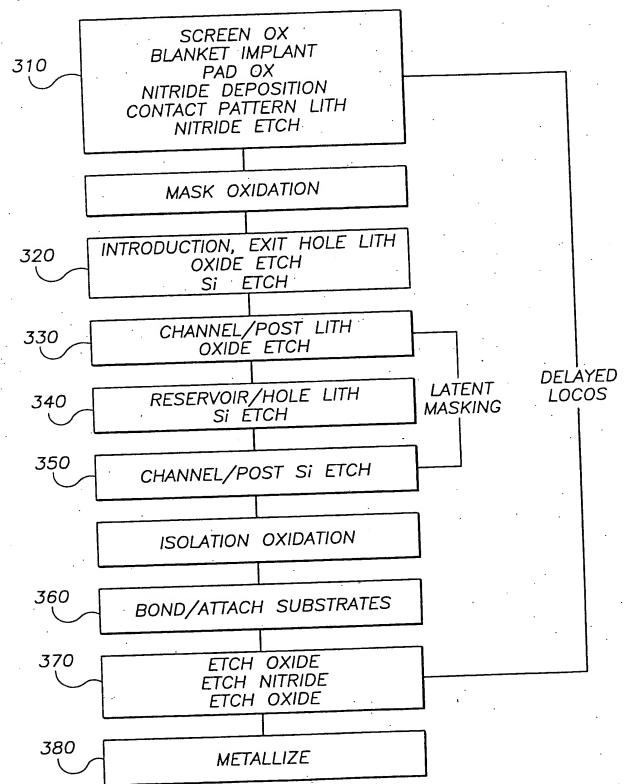


FIG.71A

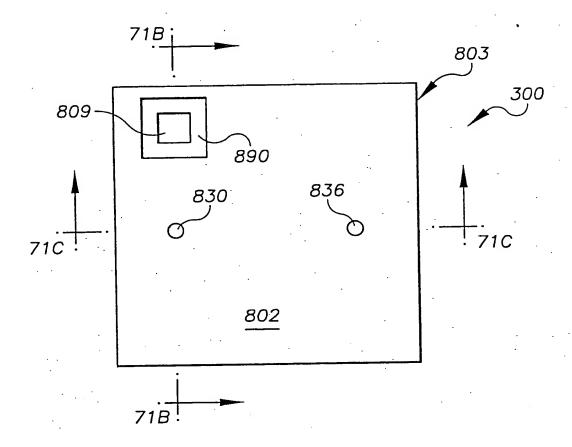


FIG. 71B

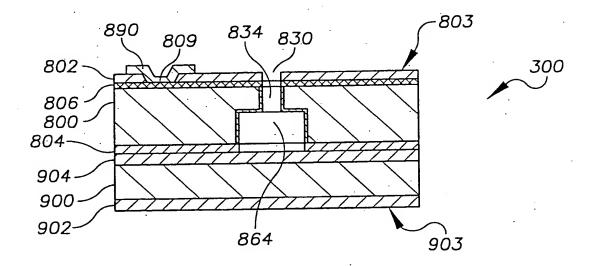


FIG. 71C

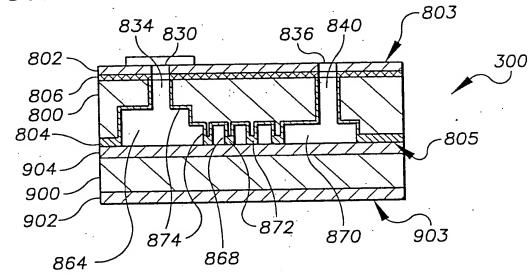
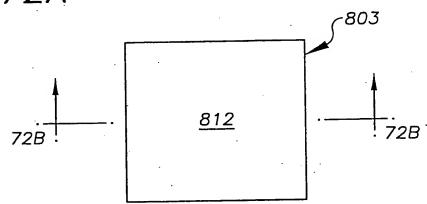


FIG.72A



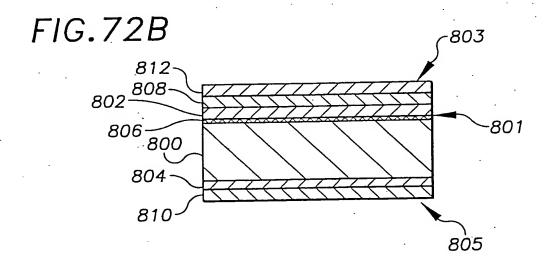
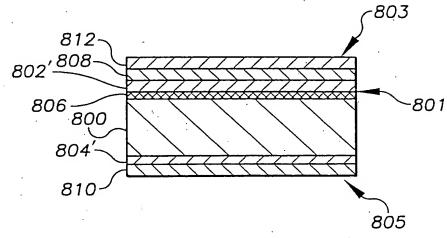
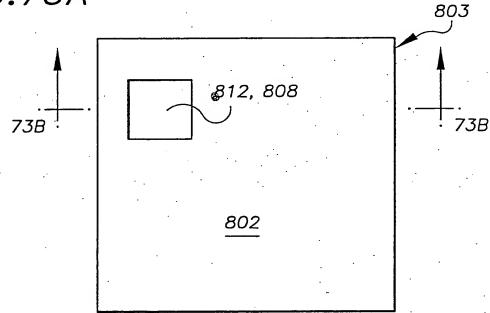
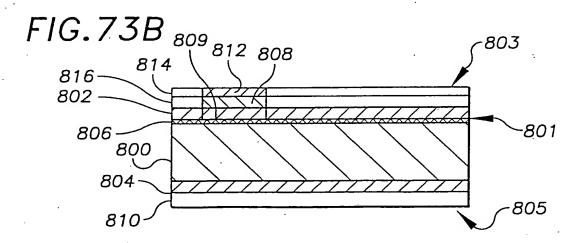


FIG.72C









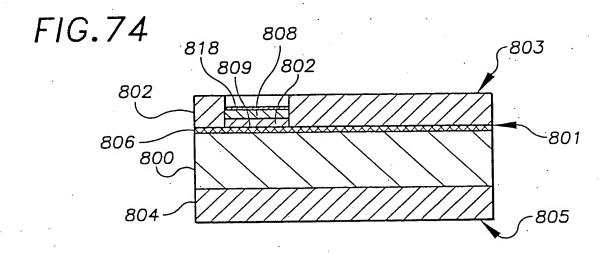


FIG. 75

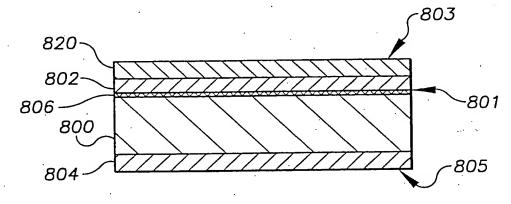
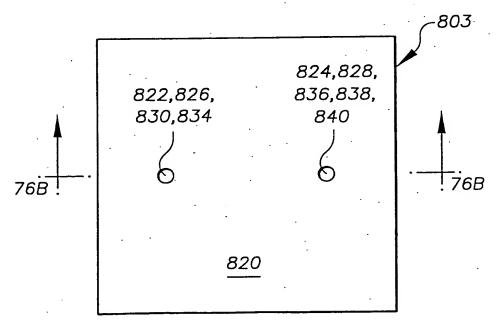
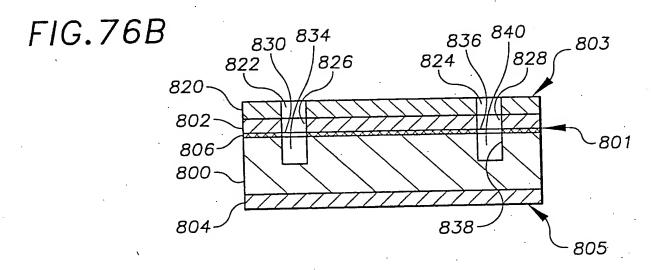
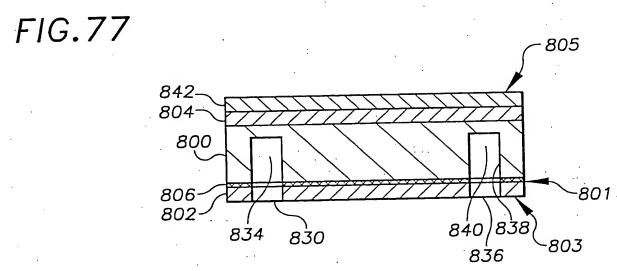
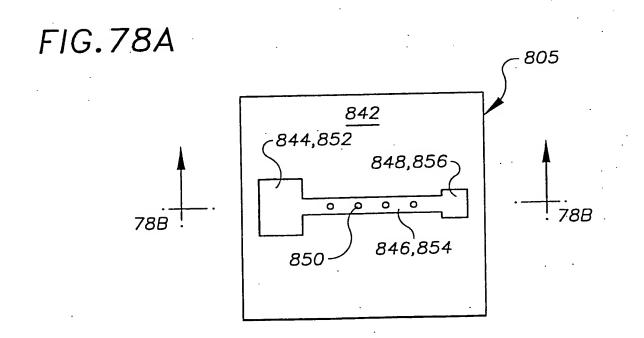


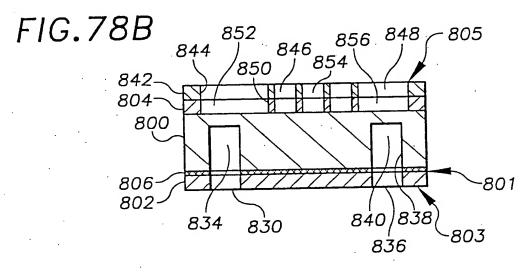
FIG.76A

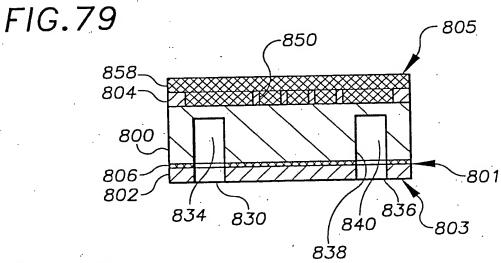












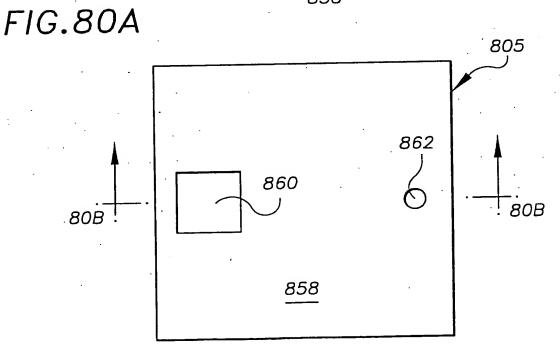


FIG.80B

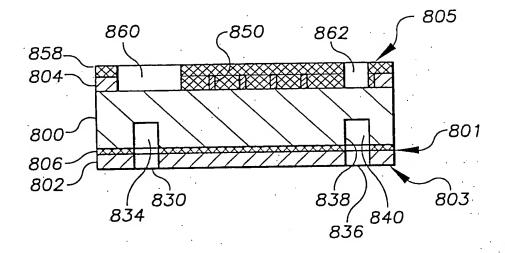
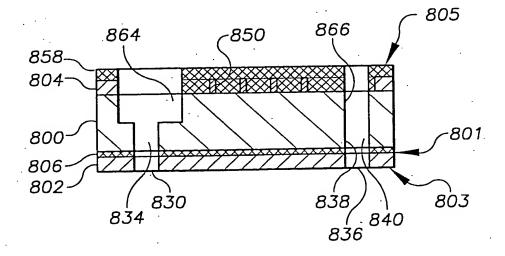
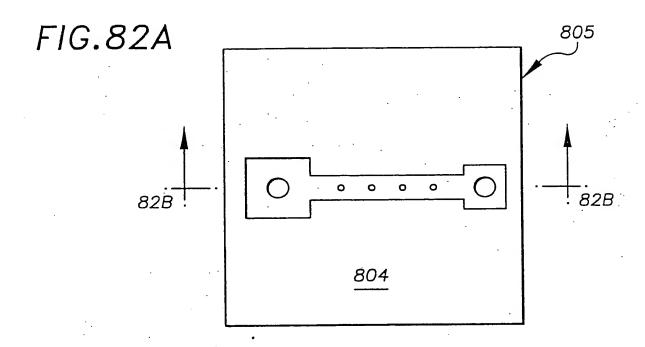
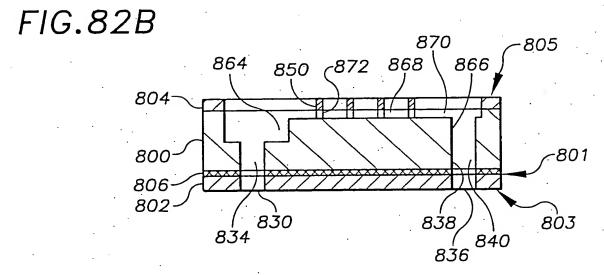
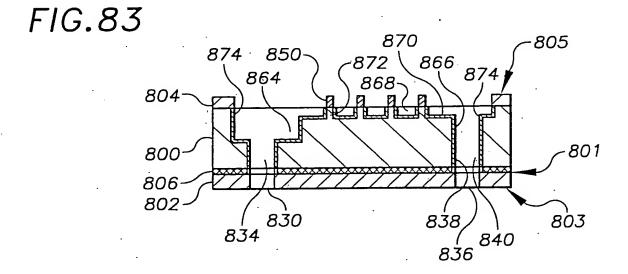


FIG.81

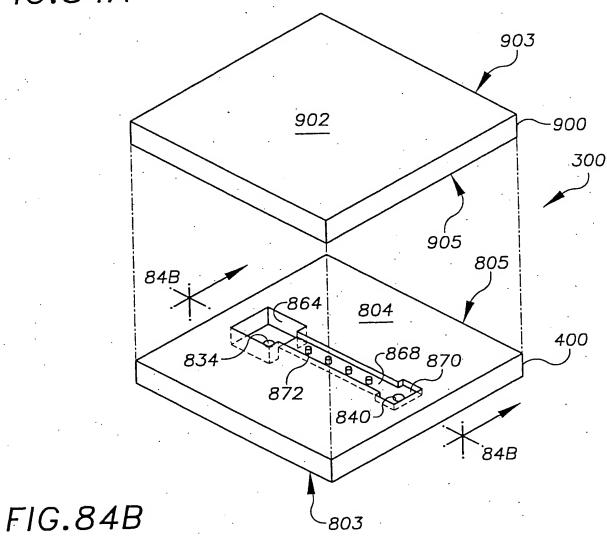












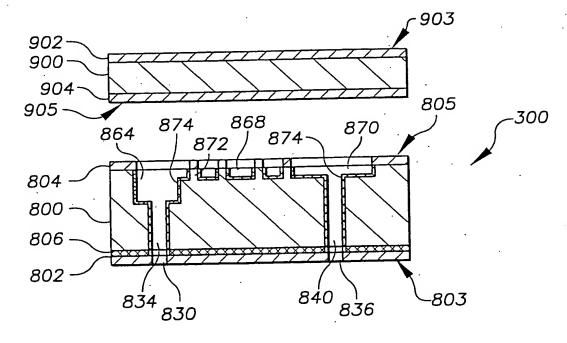
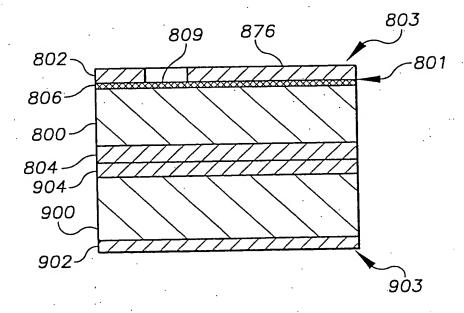


FIG.85



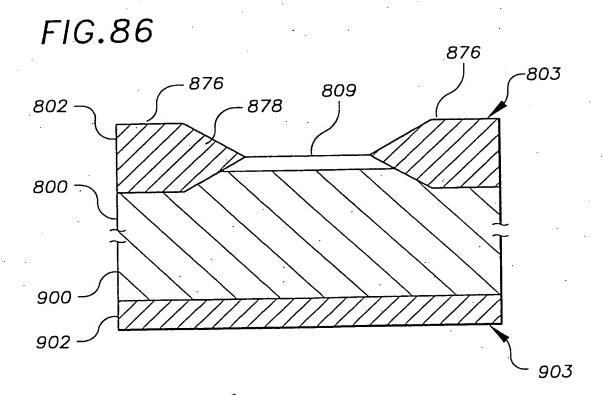


FIG.87A

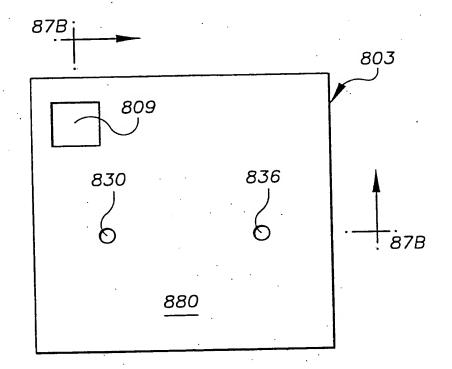


FIG.87B

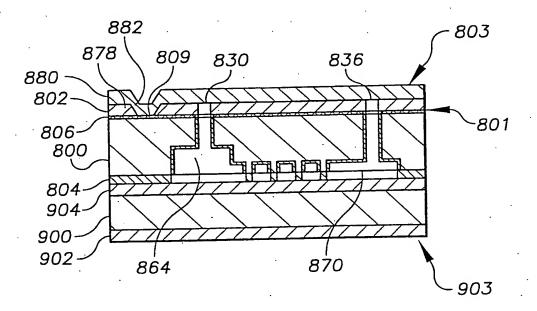


FIG.88A

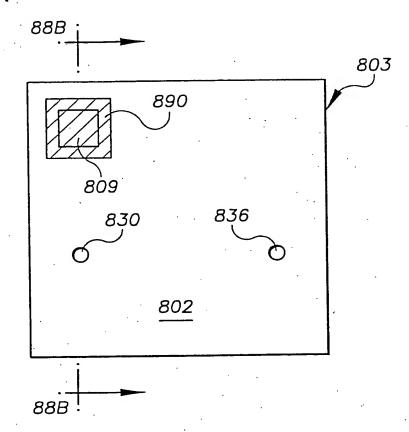


FIG.88B

